

WEB PROGRAMMING LAB

8. a. Develop a PHP program (with HTML/CSS) to keep track of the number of visitors visiting the web page and to display this count of visitors, with relevant headings.

b. Develop a PHP program (with HTML/CSS) to sort the student records which are stored in the database using selection sort.

Expt8a.php

```
<?php
// File to store the visitor count
$counterFile = "count.txt";

// Check if the file exists, if not, create it and initialize the
// count to 0
if (!file_exists($counterFile)) {
    file_put_contents($counterFile, 0);
}

// Read the current count from the file
$visitorCount = (int)file_get_contents($counterFile);

// Increment the count for each page visit
$visitorCount++;

// Write the updated count back to the file
file_put_contents($counterFile, $visitorCount);
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Visitor Counter</title>
</head>
<body>
    <h1>Welcome to Our Website!</h1>
```

```
<p>
    <?php echo "Number of visitors: " . $visitorCount; ?>
</p>
</body>
</html>
```

Welcome to Our Website!

Number of visitors: 9

Expt8b.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Student Records - Selection Sort</title>
    <link rel="stylesheet" href="style8b.css">
</head>
<body>
    <div class="container">
        <h1>Sorted Student Records</h1>
        <?php
            // Database connection
            $servername = "localhost";
            $username = "root";
            $password = "";
            $dbname = "college";

            // Create connection
            $conn = new mysqli($servername, $username, $password, $dbname);

            // Check connection
            if ($conn->connect_error) {
                die("Connection failed: " . $conn->connect_error);
            }

            // Fetch student records
            $sql = "SELECT * FROM students";
            $result = $conn->query($sql);

            $students = array(); // Initialize the array

            if ($result->num_rows > 0) {
                // Store data into an array
                while ($row = $result->fetch_assoc()) {
                    $students[] = $row;
                }
            }

            // Selection Sort algorithm to sort students by grade
```

```

$n = count($students);
for ($i = 0; $i < $n - 1; $i++) {
    $min_idx = $i;
    for ($j = $i + 1; $j < $n; $j++) {
        if ($students[$j]['id'] < $students[$min_idx]['id']) {
            $min_idx = $j;
        }
    }
    // Swap the found minimum element with the first element
    $temp = $students[$min_idx];
    $students[$min_idx] = $students[$i];
    $students[$i] = $temp;
}
} else {
    echo "<p>No student records found.</p>";
}

// Display the sorted students
if (!empty($students)) {
    echo "<table>";
    echo "<tr><th>ID</th><th>Name</th><th>Grade</th></tr>";
    foreach ($students as $student) {
        echo
"<tr><td>{$student['id']}</td><td>{$student['Name']}</td><td>{$student['Grade']}</td></tr>";
    }
    echo "</table>";
}

// Close connection
$conn->close();
?>
</div>
</body>
</html>

```

style8b.css

```
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

body {
    font-family: Arial, sans-serif;
    background-color: #f4f4f4;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
}

.container {
    background-color: white;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
    width: 600px;
    text-align: center;
}

h1 {
    margin-bottom: 20px;
}

table {
    width: 100%;
    border-collapse: collapse;
}

th, td {
    padding: 10px;
    border: 1px solid #ddd;
    text-align: center;
```

```
}
```

```
th {  
    background-color: #f2f2f2;  
}  
  
tr:nth-child(even) {  
    background-color: #f9f9f9;  
}
```

students.sql

Database: `college`

```
CREATE TABLE `students` (  
    `id` int(11) NOT NULL,  
    `Name` varchar(100) NOT NULL,  
    `Grade` int(10) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_general_ci;  
  
-- Dumping data for table `students`  
INSERT INTO `students` (`id`, `Name`, `Grade`) VALUES  
(1, 'Alice', 85),  
(2, 'Bob', 82),  
(3, 'Jhon', 92),  
(4, 'Mary', 55),  
(5, 'Sita', 98);
```

Sorted Student Records

ID	Name	Grade
1	Alice	85
2	Bob	82
3	Jhon	92
4	Mary	55
5	Sita	98